JOB OFFER: Scientific Data analysis engineer (M/F)

Institute: EURO-ARGO ERIC, ZI du Technopôle Brest Iroise, 1625 route de St Anne, 29280 Plouzané, France

Position : Fixed term **12-month**, full-time.

https://www.euro-argo.eu/News-Meetings/News/News-archives/2025/Fixed-term-12-month-full-time

Context:

The Euro-Argo ERIC is a European Research Infrastructure Consortium that currently involves 13 European countries. Euro-Argo aims to ensure the sustainability of the overall European contribution to the Argo international programme – deploying and maintaining a global network of autonomous oceanic instruments (profiling floats) that measure essential ocean variables. This global fleet is an essential contribution to the monitoring of climate change and ocean health, for both the scientific community and the operational users. The ERIC is coordinated by an office hosted by Ifremer, in Brest, France.

A fixed-term data analysis engineer position is currently offered by Euro-Argo in collaboration with the Laboratoire d'Océanographie Physique et Spatiale (LOPS-UMR6523) in Brest, in the framework of the European AMRIT project (see project description below).

Work description:

The work will mainly focus on developing regional configurations of ISASO2 (Gaillard *et al*., 2016; Kolodziejczyk *et al*., 2024), an in situ Optimal Interpolation (OI) tool designed for the analysis of ocean Dissolved Oxygen (DO) profiles. The regional configurations will be dedicated to European Marginal Seas (e.g. Mediterranean, Black, Baltic Seas). This includes: i) gathering available DO profiles from various plate-forms, ii) incorporate this data to the ISASO2 system, and iii) setup ISASO2 new regional configuration (grids, climatology, …) in the ISAS system.

The work will be conducted in collaboration with scientists from LOPS in the framework of Argo France, the French contribution to Euro-Argo ERIC. The engineer will work with the ISAS group at LOPS and will benefit from the strong expertise at LOPS regarding in situ observations and their analysis. The engineer is expected to interact with the AMRIT consortium and contribute to the AMRIT project's deliverables in the form of reports.

AMRIT project:

The core European Marine Research Infrastructures (MRIs) focused on ocean observing (EMSO, EURO-ARGO and ICOS ERICs; EuroFleets+, EuroGoShip, GROOM RI, JERICO RI and MINKE as INFRA projects) are the main providers of in situ ocean data for the European Ocean Observing System (EOOS) and Copernicus, and the primary managers of instrumental capacity supporting fundamental ocean science research. The AMRIT project gathers these MRIs together with OceanOPS/WMO and EuroGOOS coordination experience, with the objective to:

- ensure seamless operation of marine observation platforms;
- ensure the full nominal use of sensors and accelerate their evolution;
- exploit the complementarity of the various observation platforms;
- ensure the overall coherence of the ocean data value chain.

Qualification requirements:

- Engineering degree or equivalent Master 2 degree in applied mathematics/(geo)physics or related field;
- Demonstrated proficiency in programming, data processing and (geostatistical) analysis methods;
- Programming skills: Matlab, Python, FORTRAN (optional);

- Ability to work in team and to interact in English;
- Knowledge in geophysical or oceanographic data handling and analysis would be an asset.

Personal Qualities:

- Proven organisation, keen in working in team and under tight deadlines, and within an international environment context;
- Initiative, scientific curiosity, critical mind and intellectual integrity;
- Appeal for marine science and its applications.

Working Environment:

Fixed term **12-month** position, based at the Euro-Argo ERIC Office, Plouzané, France, in the premisses of Ifremer, on the International Campus of the Sea.

The candidate (M/F) will integrate into the 8-person Euro-Argo office team and will be co-supervised by Claire Gourcuff, Scientific Officer, and Nicolas Kolodziejczyk, researcher at LOPS.

Mainly office desk activities, with participation (in person and remotely) to meetings in Europe.

We offer a scientific professionally stimulating working environment and an attractive place to live (Brest) with many cultural and outdoor activities especially sea oriented.

Salary : between 35 000 € and 45 000 €.

References:

Gaillard Fabienne, Reynaud Thierry, Thierry Virginie, Kolodziejczyk Nicolas, von schuckmann Karina (2016). In-situ based reanalysis of the global ocean temperature and salinity with ISAS: variability of the heat content and steric height. Journal Of Climate. 29 (4). 1305-1323. https://doi.org/10.1175/JCLI-D-15-0028.1.

Kolodziejczyk Nicolas, Portela Rodriguez Esther, Thierry Virginie, Prigent Annaig (2024). ISASO2 : Recent trends and regional patterns of Ocean Dissolved Oxygen change. Earth System Science Data. 16 (11). 5191-5206. https://doi.org/10.5194/essd-16-5191-2024.

Application:

Please send a Resume, a Cover Letter (in English) to: contact@euro-argo.eu with subject: "Engineer ISAS" and names and contact details of 2 references (name, relation to candidate, e-mail and phone number)

Language: English
Format: pdf files
File naming: EA-2025-ERIC-*lastname*-resume.pdf and EA-2025-ERIC-*lastname*-letter.pdf

Deadline for application: **30 April 2025**
Interviews will be organised in June 2025
Start: 1st September 2025

More information:

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